WHAT IS CLAIMED IS:

1

2	1. A method for driving	an electrophoretic	display (EPD)that comprises

- 3 two opposite substrates each distributed with multiple electrodes, fluid between
- 4 the two substrates, colored charged particles suspended in the fluid and
- 5 reflective and transmissive areas defined on one of the two substrates or on the
- 6 two substrates, the method comprising:
- applying positive and negative voltages respectively to the electrodes to
- 8 drive the colored charged particles to the reflective or transmissive areas to
- 9 control whether front light is reflected by the reflective areas or whether
- backlight passes through the two substrates.
- 2: The method as claimed in claim 1, wherein the two opposite
- substrate are named as a first substrate and a second substrate and each
- substrate has an inner face and outer face, wherein the electrodes formed on the
- inner face of the first substrate are first electrodes and the electrodes formed on
- the inner face of the second substrate are second electrodes, the method further
- 16 comprising:
- adding the positive or negative voltages to the first electrodes to drive
- the colored charged particles on the first electrodes defined the reflective areas
- to control whether the front light radiated to the first substrate is reflected by
- the reflective areas or not.
- 3. The method as claimed in claim 1, wherein the two opposite
- substrate are named a first substrate and a second substrates and each substrate
- has an inner face and outer face, wherein the electrodes formed on the inner
- face of the first substrate are first electrodes and the electrodes formed on the

- inner face of the second substrate are second electrodes, comprising:
- the transmissive areas defined on the second substrate by the second
- 3 electrodes, whereby adding the positive or negative electric potential to the
- 4 second electrodes collects the colored charged particles on the transmissive
- areas to whether the backlight passes through the transmissive areas.
- 4. The method as claimed in claim 2, further comprising forming
- 7 reflective layers each is formed between the two electrodes.
- 5. The method as claimed in claim 3, further comprising forming
- 9 reflective layers each is formed between the two electrodes, wherein the
- 10 reflective layer has an upper face.
- 6. The method as claimed in claim 5, wherein the upper face is
- processed as a diffusive or random wave shape to provide a light scattering
- 13 capability.
- 7. The method as claimed in claim 1, wherein the colored charged
- particles are composed of microcapsules each has a transparent capsule,
- negatively and positively charged colored particles in the transparent capsule
- and a clear or colored fluid is the transparent capsule.
- 8. The method as claimed in claim 1, wherein the colored charged
- 19 particles are composed of rollers each has two colored hemispheres that
- 20 respectively have a positive electric charge and a negative electric charge.
- 9. The method as claimed in claim 1 wherein the colored charged
- 22 particles are single color.
- 23 10. An electrophoretic display (EPD), comprising:
- two opposite substrates with electrodes;

- colored charged particles are between the two opposite substrates; and
 reflective and transmissive areas are defined on one of the two opposite
 substrates or both of them by the electrodes, wherein some of the electrodes are
 corresponding to the transmissive areas.
- 11. The EPD as claimed in claim 10, wherein the two opposite
 substrates are named a first substrate and a second substrates each has an inner
 face and an outer face, wherein the two inner faces are faced each other and the
 electrodes formed on the inner face of the first substrate are first electrodes and
 the electrodes formed on the inner face of the second substrate are second
 electrodes.
 - 12. The EPD as claimed in claim 11, further comprising reflective layers each is formed between the two of the second electrodes, wherein each reflective layer has an upper face.

11

12

13

14

15

16

17

18

19

20

24

- 13. The EPD as claimed in claim 12, wherein the upper face is processed as a diffusive or random wave shaped to provide a light scattering capability.
- 14. The EPD as claimed in claim 10 wherein the colored charged particles are composed of microcapsules each has a transparent capsule, negatively and positively charged colored particles in the transparent capsule and a clear or colored fluid is the capsule.
- 15. The EPD as claimed in claim 10, wherein the colored charged particles are composed of rollers each has two colored hemispheres that respectively have a positive electric charge and a negative electric charge.
 - 16. The EPD as claimed in claim 10, wherein the colored charged

- particles are single color and have positively charge or negatively charge.
- 2 17. The EPD as claimed in claim 11, wherein each first electrode is
- 3 covered one whole pixel area of the first electrode and each second electrode
- 4 has at least two second electrode layers.
- 5 18. The EPD as claimed in claim 11, wherein each first electrode has at
- 6 least one first electrode layer and each second electrode is covered one whole
- 7 pixel area of the second substrate.
- 8 19. The EPD as claimed in claim 11, further comprising a backlit
- 9 module that is mounted on the outer face of the second substrates.
- 20 The EPD as claimed in claim 11, further comprising a front light
- module that is mounted on the outer face of the first substrate.
- 12 21. The EPD as claimed in claim 11, wherein the first and second
- substrates are made of the glass, plastic or stainless steel material.
- 14 22. The EPD as claimed in claim 11 wherein the first and second
- electrodes are driven by a static driving circuit.
- 16 23. The EPD as claimed in claim 11 wherein the first and second
- electrodes are driven by an active driving circuit.
- 18 24. The EPD as claimed in claim 10, wherein two opposite substrate
- are named a first substrate and a second substrates each has an inner face and
- outer face, wherein the all electrodes are formed on the inner face of the first
- 21 substrate.
- 25. The EPD as claimed in claim 10, wherein two opposite substrate
- are named a first substrate and a second substrates each has an inner face and
- outer face, wherein the all electrodes are formed on the inner face of the second

- substrate, wherein each electrode comprises an outer electrode layer and an
- 2 inner electrode layer.
- 3 26. The EPD as claimed in claim 25, wherein the outer electrode layer
- and an inner electrode layer are period arrangement.